

Section II. OPERATOR/CREW TROUBLESHOOTING PROCEDURES

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3-4. GENERAL.

a. This section provides information for identifying and correcting malfunctions which may develop when operating the Precision Gunnery System (PGS).

b. The Troubleshooting Symptom Index in paragraph 3-6 lists common malfunctions which may occur and refers you to the proper page in Table 3-2 for a troubleshooting procedure.

c. This section cannot list all malfunctions that may occur, nor all tests or inspections and corrective actions. If a malfunction is not listed, or is not corrected by the listed corrective actions, notify trained PGS troubleshooter or Training Audio Visual Support Center (TAVSC).

d. A Built-In Test (BIT) is automatically and repeatedly performed when the vehicle MASTER SWITCH is placed in ON position. If a malfunction is found, a message will appear on the control panel in the form of a pop-up screen.

(1) The pop-up screen displays various types of errors.

(2) After correcting a malfunction, press ENTER or ESC on the control panel to clear the pop-up screen and resume the BIT. When all malfunctions have been corrected, the pop-up screen will no longer appear.

e. Vehicle interface unit, TBOS driver unit, RSI unit, TBOS video mixer, expansion unit, and target computer units have a malfunction indicator light which is visible through the moisture indicator window. Pay attention to these indicator lights when performing troubleshooting:

(1) If indicator light is blinking, unit is operational.

(2) If indicator light is on but NOT blinking, a malfunction is indicated.

(3) If indicator light is OFF, there is no power present.

f. When troubleshooting a malfunction:

(1) Locate the symptom or symptoms in paragraph 3-6 that best describe the malfunction. If the appropriate symptom is not listed, notify your trained PGS troubleshooter or TAVSC.

(2) Turn to page in Table 3-2 where the troubleshooting procedures for the malfunction in question is described. Headings at the top of each page show how each troubleshooting procedure is organized: MALFUNCTION, TEST OR INSPECTION (in step number order), and CORRECTIVE ACTION.

(3) Perform each step in the order listed until the malfunction is corrected.

3-5. EXPLANATION OF COLUMNS.

The columns in Table 3-2 are defined as follows:

- a. **MALFUNCTION**. A visual or operational indication that something is wrong with the PGS.
- b. **TEST OR INSPECTION**. A procedure to isolate the problem in a system or component.
- c. **CORRECTIVE ACTION**. A procedure to correct the problem.

3-6. TROUBLESHOOTING SYMPTOM INDEX.

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Table 3-2. Operator/Crew Troubleshooting.

MALFUNCTION

TEST OR INSPECTION

CORRECTIVE ACTION

1. SYSTEM WILL NOT FIRE.

WARNING

- **Vehicle MASTER SWITCH and turret power must be OFF before connecting or disconnecting system components/cables. Failure to follow this warning may cause turret or 25 mm gun movement, resulting in injury or death to personnel.**
- **TURRET DRIVE LOCK must be in locked position before connecting or disconnecting system components/cables. Failure to follow this warning may result in injury or death to personnel.**

Step 1. Ensure vehicle MASTER SWITCH (see TM 08594A-10/2) and turret power (see TM 08594A-10/1A) are ON.

Place vehicle MASTER SWITCH and turret power ON.

Step 2. Open weapons enclosure bag (see TM 08594A-10/1A). Check for loose or disconnected shorting plug (see paragraph 2-5).

Connect shorting plug properly (see paragraph 2-5).

Step 3. Check if weapon is in SEAR position.

Place weapon in SEAR position (see TM 08594A-10/1A).

Step 4. Check available ammunition using control panel (see paragraph 2-9).

Restore basic load of ammunition (see paragraph 2-9).

Step 5. Check for loose or disconnected W12 cable connector at PDA unit connector J3 or PDA vehicle cable connector W106P1 (see paragraph 2-5).

Connect W12 cable properly (see paragraph 2-5).

Step 6. Check for loose or disconnected W14 cable connector (see paragraph 2-5).

Connect W14 cable properly (see paragraph 2-5).

Step 7. Check W12 and W14 cables for damage.

If W12 or W14 cable is damaged, notify trained PGS troubleshooter or TAVSC.

Step 8. Perform manual BIT (see paragraph 2-6).

Step 9. Notify trained PGS troubleshooter or TAVSC.

Table 3-2. Operator/Crew Troubleshooting (Con't)

MALFUNCTION	TEST OR INSPECTION	CORRECTIVE ACTION
2. VEHICLE INTERCOM DOES NOT PROVIDE AUDIO INDICATIONS WHEN FIRING.		
	Step 1. Check if radio is functioning properly (see TM 08594A-10/2).	If radio is not functioning properly, notify Organizational Maintenance.
	Step 2. Check if cable connections to radio are correct (see paragraph 2-5).	Correct cable connections (see paragraph 2-5).
	Step 3. Check W13 cable for damage.	If W13 cable is damaged, notify trained PGS troubleshooter or TAVSC.
	Step 4. Check malfunction indicator light on expansion unit.	If indicator light is not blinking, notify trained PGS troubleshooter or TAVSC.
	Step 5. Check expansion unit for damage.	If expansion unit is damaged, notify trained PGS troubleshooter or TAVSC.
	Step 6. Notify trained PGS troubleshooter or TAVSC.	
3. GUNNER'S 25 MM GUN OR COAX TRACERS FALLING SHORT AND/OR TARGET HIT POSITION INCORRECT.		
	Step 1. Perform boresight check (see TM 08594A-10/2).	
	Step 2. Perform manual BIT (see paragraph 2-6).	
	Step 3. Perform alignment procedures (see paragraph 2-7).	
	Step 4. Notify trained PGS troubleshooter or TAVSC.	
4. COMMANDER'S 25 MM GUN OR COAX TRACERS FALLING SHORT AND/OR TARGET HIT POSITION INCORRECT.		
	Step 1. Perform boresight check (see TM 08594A-10/2).	
	Step 2. Perform manual BIT (see paragraph 2-6).	
	Step 3. Perform alignment procedures (see paragraph 2-7).	
	Step 4. Notify trained PGS troubleshooter or TAVSC.	
5. CONTROL PANEL DISPLAY SCREEN SHOWS MAXIMUM RANGE FOR TARGETS WITHIN OPERATING RANGE.		
	Step 1. Check transceiver unit lens for dirt and moisture.	Gently wipe lens with lens paper (Item 3, Appendix D) moistened with lens cleaning compound (Item 2, Appendix D).

Table 3-2. Operator/Crew Troubleshooting (Con't)

MALFUNCTION	TEST OR INSPECTION	CORRECTIVE ACTION
	Step 2.	Check transceiver unit for damage and transceiver unit lens for scratches. If transceiver unit is damaged or lens is scratched, notify trained PGS troubleshooter or TAVSC.
	Step 3.	Check retro reflector unit lens for dirt and moisture. Gently wipe lens with rag (Item 4, Appendix D) moistened with water.
	Step 4.	Perform alignment procedures (see paragraph 2-7).



Vehicle MASTER SWITCH and turret power must be OFF before connecting or disconnecting system components/cables. Failure to follow this warning may cause turret or 25 mm gun movement, resulting in injury or death to personnel.

- Step 5. Check W14 cable for loose or disconnected connectors (see paragraph 2-5).
Connect W14 cable properly (see paragraph 2-5).
- Step 6. Check W14 cable for damage.
If W14 cable is damaged, notify trained PGS troubleshooter or TAVSC.
- Step 7. Check malfunction indicator light on expansion unit.
If light is not blinking, notify trained PGS troubleshooter or TAVSC.
- Step 8. Check expansion unit for damage.
If expansion unit is damaged, notify trained PGS troubleshooter or TAVSC.
- Step 9. Notify trained PGS troubleshooter or TAVSC.

6. CONTROL PANEL WILL NOT ACCEPT INPUT DATA AND CONTROL PANEL TEXT IS NOT DISPLAYED.



Vehicle MASTER SWITCH and turret power must be OFF before connecting or disconnecting system components/cables. Failure to follow this warning may cause turret or 25 mm gun movement, resulting in injury or death to personnel.

- Step 1. Check position of vehicle MASTER SWITCH (see TM 08594A-10/2).
Place vehicle MASTER SWITCH in ON position (see TM 08594A-10/2).

Table 3-2. Operator/Crew Troubleshooting (Con't)

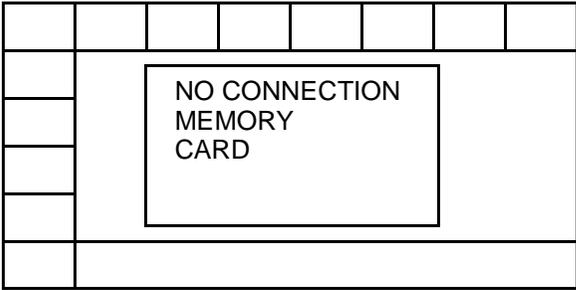
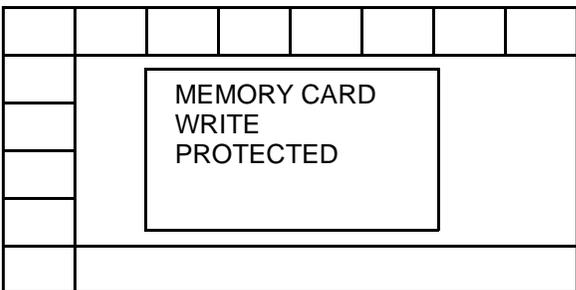
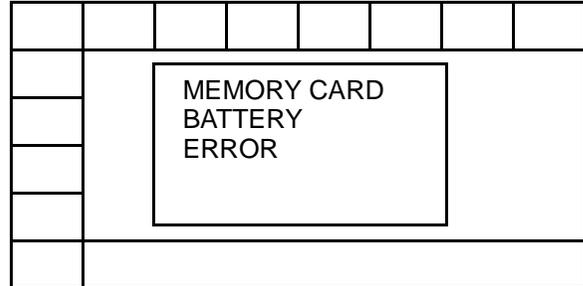
MALFUNCTION	TEST OR INSPECTION	CORRECTIVE ACTION
	<p>Step 2. Check for loose or disconnected W12 cable connectors (see paragraph 2-5). Connect W12 cable properly (see paragraph 2-5).</p> <p>Step 3. Check W12 cable for damage. If W12 cable is damaged, notify trained PGS troubleshooter or TAVSC.</p> <p>Step 4. Check for loose or disconnected control panel cable connector (see paragraph 2-5). Connect control panel cable properly (see paragraph 2-5).</p> <p>Step 5. Notify trained PGS troubleshooter or TAVSC.</p>	
<p>7. CONTROL PANEL WILL NOT ACCEPT SELECTION OF SYSTEM FUNCTIONS AND DISPLAY SCREEN SHOWS “NO CONNECTION MEMORY CARD”</p>	<p>Step 1. Check if Training Data Retrieval System (TDRS) memory card is properly installed in control panel (see paragraph 2-5). If TDRS memory card is missing, notify your supervisor.</p>	 <p>The diagram shows a rectangular control panel with a grid of buttons at the top. A central rectangular area contains the text "NO CONNECTION MEMORY CARD".</p>
	<p>Step 2. Remove and install TDRS memory card in control panel until flush with end of control panel (see paragraph 2-5). If TDRS memory card will not make connection, notify trained PGS troubleshooter or TAVSC.</p> <p>Step 3. Notify trained PGS troubleshooter or TAVSC.</p>	
<p>8. CONTROL PANEL WILL NOT ACCEPT SELECTION OF SYSTEM FUNCTIONS AND DISPLAY SCREEN SHOWS “MEMORY CARD WRITE PROTECTED”.</p>	<p>Step 1. Remove TDRS memory card from control panel (see paragraph 2-5). Check position of write protection switch (see paragraph 3-8). Place write protection switch in UNLOCK position (see paragraph 3-8). If write protection switch is in UNLOCK position, notify trained PGS troubleshooter or TAVSC.</p>	 <p>The diagram shows a rectangular control panel with a grid of buttons at the top. A central rectangular area contains the text "MEMORY CARD WRITE PROTECTED".</p>
	<p>Step 2. Notify trained PGS troubleshooter or TAVSC.</p>	

Table 3-2. Operator/Crew Troubleshooting (Con't)

MALFUNCTION	TEST OR INSPECTION	CORRECTIVE ACTION
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9. CONTROL PANEL DISPLAY SCREEN SHOWS "MEMORY CARD BATTERY ERROR".

Step 1. Remove TDRS memory card from control panel (see paragraph 2-21). Check position of battery (see paragraph 3-7).



Place battery positive (+) side up (see paragraph 3-7). Reprogram TDRS memory card (see TM 9-6920-711-12&P-1).

Step 2. Install new battery in TDRS memory card (see paragraph 3-7). Install TDRS memory card in control panel (see paragraph 2-5).

Reprogram TDRS memory card (see TM 9-6920-711-12&P-1).

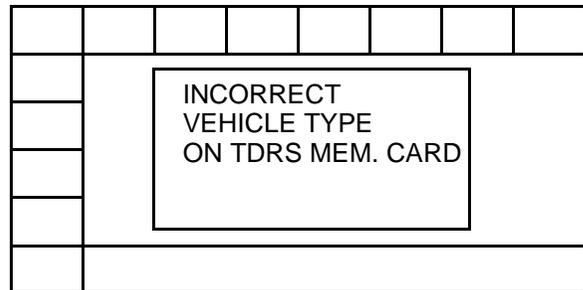
If error message still appears on control panel, notify trained PGS troubleshooter or TAVSC.

Step 3. Notify trained PGS troubleshooter or TAVSC.

10. CONTROL PANEL DISPLAY SCREEN SHOWS "INCORRECT VEHICLE TYPE ON TDRS MEM. CARD".

NOTE

Manual BIT and alignment procedures must be performed after each corrective action (see paragraphs 2-6 and 2-7). Ensure that PGS is functioning properly before leaving vehicle.



Reprogram TDRS memory card with correct vehicle/application (see TM 9-6920-711-12&P-1).

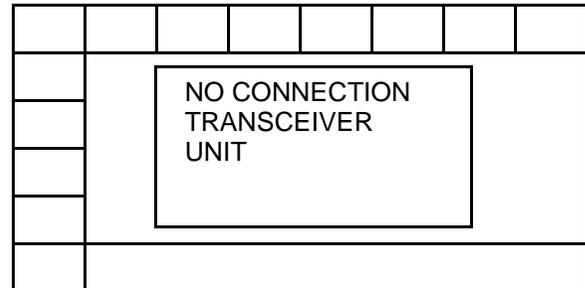
Table 3-2. Operator/Crew Troubleshooting (Con't)

MALFUNCTION	TEST OR INSPECTION	CORRECTIVE ACTION
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11. CONTROL PANEL DISPLAY SCREEN SHOWS "NO CONNECTION TRANSCEIVER UNIT".



Vehicle MASTER SWITCH and turret power must be OFF before connecting or disconnecting system components/cables. Failure to follow this warning may cause turret or 25 mm gun movement, resulting in injury or death to personnel.

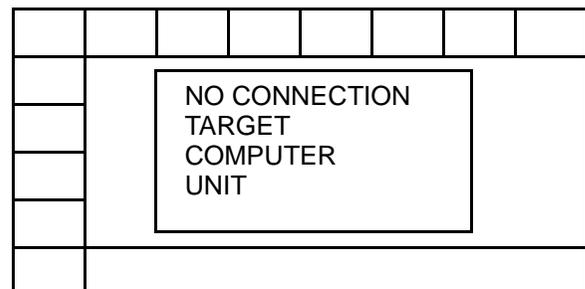


- Step 1. Check W1, W2, W3, W4, and W5 cables for loose or disconnected cable connectors (see paragraphs 2-4 and 2-5).
Connect W1, W2, W3, W4, and W5 cables properly (see paragraphs 2-4 and 2-5).
- Step 2. Check W1, W2, W3, W4, and W5 cables for damage.
If W1, W2, W3, W4, or W5 cable is damaged, notify trained PGS troubleshooter or TAVSC.
- Step 3. Check transceiver unit for damage.
If transceiver unit is damaged, notify trained PGS troubleshooter or TAVSC.
- Step 4. Notify trained PGS troubleshooter or TAVSC.

12. CONTROL PANEL DISPLAY SCREEN SHOWS "NO CONNECTION TARGET COMPUTER UNIT".



Vehicle MASTER SWITCH and turret power must be OFF before connecting or disconnecting system components/cables. Failure to follow this warning may cause turret or 25 mm gun movement, resulting in injury or death to personnel.



- Step 1. Check W1, W2, W3, W4, and W5 cables for loose or disconnected cable connectors (see paragraphs 2-4 and 2-5).
Connect W1, W2, W3, W4, and W5 cables properly (see paragraphs 2-4 and 2-5).

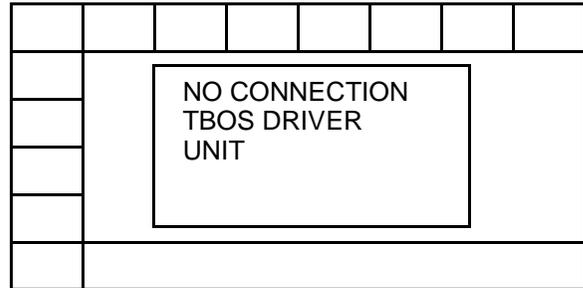
Table 3-2. Operator/Crew Troubleshooting (Con't)

MALFUNCTION	TEST OR INSPECTION	CORRECTIVE ACTION
	Step 2.	Check W1, W2, W3, W4, and W5 cables for damage. If W1, W2, W3, W4, or W5 cable is damaged, notify trained PGS troubleshooter or TAVSC.
	Step 3.	Check malfunction indicator light on target computer unit. If indicator light is not blinking, notify trained PGS troubleshooter on TAVSC.
	Step 4.	Check target computer unit for damage. If target computer unit is damaged, notify trained PGS troubleshooter or TAVSC.
	Step 5.	Notify trained PGS troubleshooter or TAVSC.

13. CONTROL PANEL DISPLAY SCREEN SHOWS "NO CONNECTION TBOS DRIVER UNIT".



Vehicle MASTER SWITCH and turret power must be OFF before connecting or disconnecting system components/cables. Failure to follow this warning may cause turret or 25 mm gun movement, resulting in injury or death to personnel.

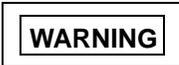


- Step 1. Check W1, W2, W3, W4, and W5 cables for loose or disconnected cable connectors at TBOS eyepiece units (see paragraph 2-5).
Connect W1, W2, W3, W4, and W5 cables properly (see paragraph 2-5).
- Step 2. Check W1, W2, W3, W4, and W5 cables for damage.
If W1, W2, W3, W4, and W5 cable is damaged, notify trained PGS troubleshooter or TAVSC.
- Step 3. Notify trained PGS troubleshooter or TAVSC.

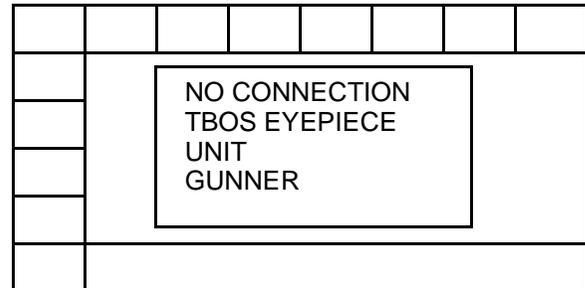
Table 3-2. Operator/Crew Troubleshooting (Con't)

MALFUNCTION
TEST OR INSPECTION
CORRECTIVE ACTION

14. CONTROL PANEL DISPLAY SCREEN SHOWS "NO CONNECTION TBOS EYEPIECE UNIT GUNNER".



Vehicle **MASTER SWITCH** and turret power must be **OFF** before connecting or disconnecting system components/cables. Failure to follow this warning may cause turret or 25 mm gun movement, resulting in injury or death to personnel.



Step 1. Check W9 cable for loose or disconnected cable connector at TBOS gunner's eyepiece unit (see paragraph 2-5).

Connect W9 cable properly (see paragraph 2-5).

Step 2. Check W9 cable for damage.

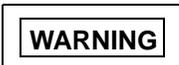
If W9 cable is damaged, notify trained PGS troubleshooter or TAVSC.

Step 1. Check TBOS gunner's eyepiece unit for damage.

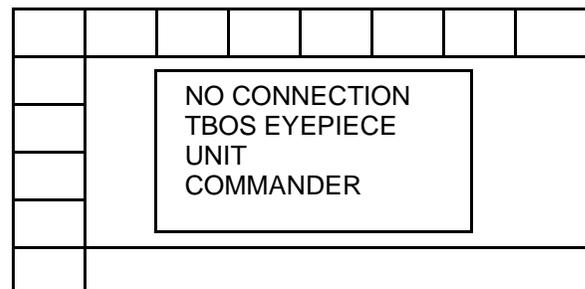
If TBOS gunner's eyepiece unit is damaged, notify trained PGS troubleshooter or TAVSC.

Step 1. Notify trained PGS troubleshooter or TAVSC.

1. CONTROL PANEL DISPLAY SCREEN SHOWS "NO CONNECTION TBOS EYEPIECE UNIT COMMANDER".



Vehicle **MASTER SWITCH** and turret power must be **OFF** before connecting or disconnecting system components/cables. Failure to follow this warning may cause turret or 25 mm gun movement, resulting in injury or death to personnel.



Step 1. Check W10 cable for loose or disconnected cable connector at TBOS commander's eyepiece unit (see paragraph 2-5).

Connect W10 cable properly (see paragraph 2-5).

Table 3-2. Operator/Crew Troubleshooting (Con't)

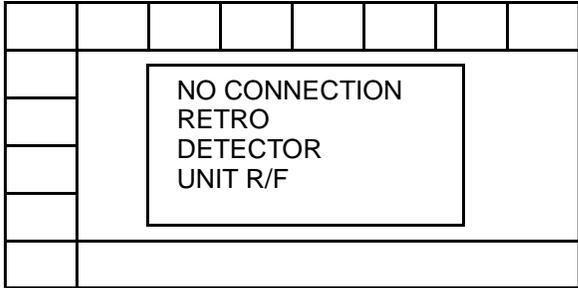
MALFUNCTION	TEST OR INSPECTION	CORRECTIVE ACTION
	Step 1. Check W10 cable for damage. If W10 cable is damaged, notify trained PGS troubleshooter or TAVSC.	
	Step 1. Check TBOS commander's eyepiece unit for damage. If TBOS commander's eyepiece unit is damaged, notify trained PGS troubleshooter or TAVSC.	
	Step 1. Notify trained PGS troubleshooter or TAVSC.	
1. CONTROL PANEL DISPLAY SCREEN SHOWS "NO CONNECTION RETRO DETECTOR UNIT R/F".		
	<div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 0 auto;"> WARNING </div> <p>Vehicle MASTER SWITCH and turret power must be OFF before connecting or disconnecting system components/cables. Failure to follow this warning may cause turret or 25 mm gun movement, resulting in injury or death to personnel.</p>	 <p>The diagram shows a rectangular control panel display screen. The screen is divided into a grid of cells. A central rectangular area contains the text: "NO CONNECTION RETRO DETECTOR UNIT R/F".</p>
	Step 1. Check W7 cable for loose or disconnected cable connector (see paragraphs 2-4 and 2-5). Connect W7 cable properly (see paragraphs 2-4 and 2-5).	
	Step 1. Check W7 cable for damage. If W7 cable is damaged, notify trained PGS troubleshooter or TAVSC.	
	Step 1. Check right-front retro detector unit for damage. If retro detector unit is damaged, notify trained PGS troubleshooter or TAVSC.	
	Step 1. Notify trained PGS troubleshooter or TAVSC.	

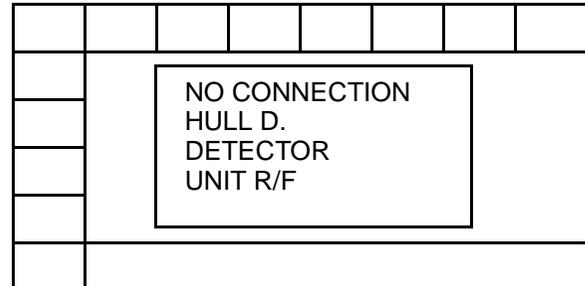
Table 3-2. Operator/Crew Troubleshooting (Con't)

MALFUNCTION	TEST OR INSPECTION	CORRECTIVE ACTION
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1. CONTROL PANEL DISPLAY SCREEN SHOWS "NO CONNECTION HULL D. DETECTOR UNIT R/F".



Vehicle MASTER SWITCH and turret power must be OFF before connecting or disconnecting system components/cables. Failure to follow this warning may cause turret or 25 mm gun movement, resulting in injury or death to personnel.

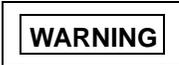


- Step 1. Check for loose or disconnected right-front hull defilade detector unit cable connector J2 at right-front retro detector unit.
Connect J2 cable connector properly (see paragraph 2-4).
- Step 1. Check W7 cable for loose or disconnected cable connector (see paragraphs 2-4 and 2-5).
Connect W7 cable properly (see paragraphs 2-4 and 2-5).
- Step 1. Check right-front hull defilade detector unit for damage.
If hull defilade detector unit is damaged, notify trained PGS troubleshooter or TAVSC.
- Step 1. Check W7 cable for damage.
If W7 cable is damaged, notify trained PGS troubleshooter or TAVSC.
- Step 1. Check right-front retro detector unit for damage.
If retro detector unit is damaged, notify trained PGS troubleshooter or TAVSC.
- Step 1. Notify trained PGS troubleshooter or TAVSC.

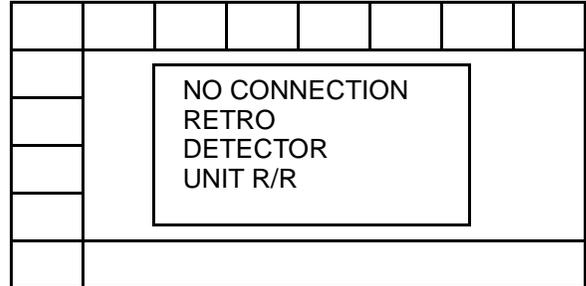
Table 3-2. Operator/Crew Troubleshooting (Con't)

MALFUNCTION	TEST OR INSPECTION	CORRECTIVE ACTION
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1. CONTROL PANEL DISPLAY SCREEN SHOWS "NO CONNECTION RETRO DETECTOR UNIT R/R".



Vehicle MASTER SWITCH and turret power must be OFF before connecting or disconnecting system components/cables. Failure to follow this warning may cause turret or 25 mm gun movement, resulting in injury or death to personnel.

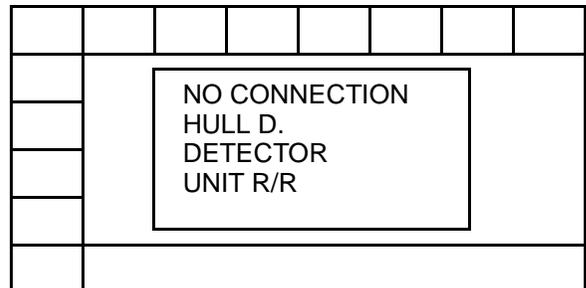


- Step 1. Check W8 cable for loose or disconnected cable connector (see paragraphs 2-4 and 2-5).
Connect W8 cable properly (see paragraphs 2-4 and 2-5).
- Step 1. Check W8 cable for damage.
If W8 cable is damaged, notify trained PGS troubleshooter or TAVSC.
- Step 1. Check right-rear retro detector unit for damage.
If retro detector unit is damaged, notify trained PGS troubleshooter or TAVSC.
- Step 1. Notify trained PGS troubleshooter or TAVSC.

1. CONTROL PANEL DISPLAY SCREEN SHOWS "NO CONNECTION HULL D. DETECTOR UNIT R/R".



Vehicle MASTER SWITCH and turret master power must be OFF before connecting or disconnecting system components/cables. Failure to follow this warning may cause turret or 25 mm gun movement, resulting in injury or death to personnel.



- Step 1. Check for loose or disconnected right-rear hull defilade detector unit cable connector J2 at right-rear retro detector unit (see paragraph 2-4).
Connect J2 cable connector properly (see paragraph 2-4).
- Step 1. Check W8 cable for loose or disconnected cable connector (see paragraphs 2-4 and 2-5).
Connect W8 cable properly (see paragraphs 2-4 and 2-5).

Table 3-2. Operator/Crew Troubleshooting (Con't)

MALFUNCTION	TEST OR INSPECTION	CORRECTIVE ACTION
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Step 1. Check right-rear hull defilade detector unit for damage.

If hull defilade detector unit is damaged, notify trained PGS troubleshooter or TAVSC.

Step 1. Check W8 cable for damage.

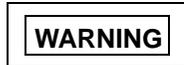
If W8 cable is damaged, notify trained PGS troubleshooter or TAVSC.

Step 1. Check right-rear retro detector unit for damage.

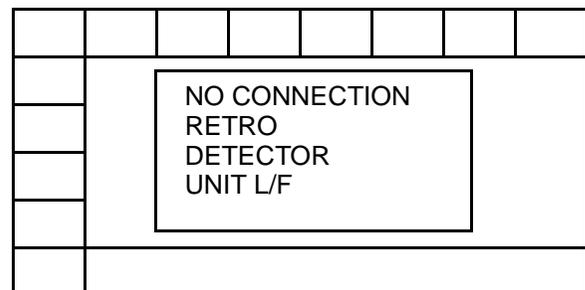
If retro detector unit is damaged, notify trained PGS troubleshooter or TAVSC.

Step 1. Notify trained PGS troubleshooter or TAVSC.

1. CONTROL PANEL DISPLAY SCREEN SHOWS "NO CONNECTION RETRO DETECTOR UNIT L/F".



Vehicle MASTER SWITCH and turret power must be OFF before connecting or disconnecting system components/cables. Failure to follow this warning may cause turret or 25 mm gun movement, resulting in injury or death to personnel.



Step 1. Check W7 cable for loose or disconnected cable connector (see paragraphs 2-4 and 2-5).

Connect W7 cable properly (see paragraphs 2-4 and 2-5).

Step 1. Check W7 cable for damage.

If W7 cable is damaged, notify trained PGS troubleshooter or TAVSC.

Step 1. Check left-front retro detector unit for damage.

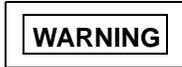
If retro detector unit is damaged, notify trained PGS troubleshooter or TAVSC.

Step 1. Notify trained PGS troubleshooter or TAVSC.

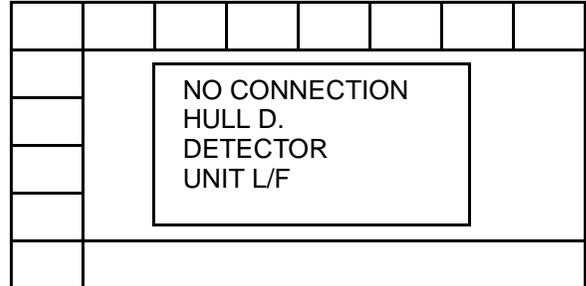
Table 3-2. Operator/Crew Troubleshooting (Con't)

MALFUNCTION	TEST OR INSPECTION	CORRECTIVE ACTION
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1. CONTROL PANEL DISPLAY SCREEN SHOWS "NO CONNECTION HULL D. DETECTOR UNIT L/F".



Vehicle MASTER SWITCH and turret power must be OFF before connecting or disconnecting system components/cables. Failure to follow this warning may cause turret or 25 mm gun movement, resulting in injury or death to personnel.

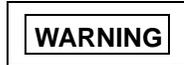


- Step 1. Check for loose or disconnected left-front hull defilade detector unit cable connector J2 at left-front retro detector unit (see paragraph 2-4).
 Connect J2 cable connector properly (see paragraph 2-4).
- Step 1. Check W7 cable for loose or disconnected cable connector (see paragraphs 2-4 and 2-5).
 Connect W7 cable properly (see paragraphs 2-4 and 2-5).
- Step 1. Check left-rear hull defilade detector unit for damage.
 If hull defilade detector unit is damaged, notify trained PGS troubleshooter or TAVSC.
- Step 1. Check W7 cable for damage.
 If W7 cable is damaged, notify trained PGS troubleshooter or TAVSC.
- Step 1. Check left-front retro detector unit for damage.
 If retro detector unit is damaged, notify trained PGS troubleshooter or TAVSC.
- Step 1. Notify trained PGS troubleshooter or TAVSC.

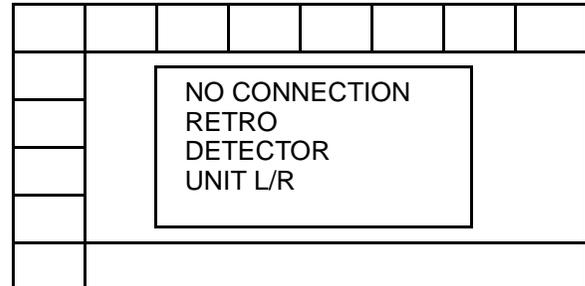
Table 3-2. Operator/Crew Troubleshooting (Con't)

MALFUNCTION	TEST OR INSPECTION	CORRECTIVE ACTION
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1. CONTROL PANEL DISPLAY SCREEN SHOWS "NO CONNECTION RETRO DETECTOR UNIT L/R".

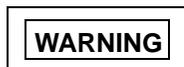


Vehicle MASTER SWITCH and turret power must be OFF before connecting or disconnecting system components/cables. Failure to follow this warning may cause turret or 25 mm gun movement, resulting in injury or death to personnel.

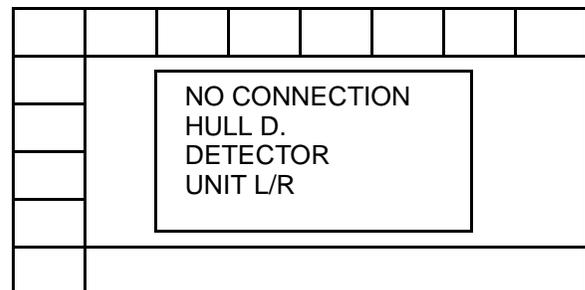


- Step 1. Check W8 cable for loose or disconnected cable connector (see paragraphs 2-4 and 2-5).
Connect W8 cable properly (see paragraphs 2-4 and 2-5).
- Step 1. Check W8 cable for damage.
If W8 cable is damaged, notify trained PGS troubleshooter or TAVSC.
- Step 1. Check left-rear retro detector unit for damage.
If retro detector unit is damaged, notify trained PGS troubleshooter or TAVSC.
- Step 1. Notify trained PGS troubleshooter or TAVSC.

1. CONTROL PANEL DISPLAY SCREEN SHOWS "NO CONNECTION HULL D. DETECTOR UNIT L/R".



Vehicle MASTER SWITCH and turret power must be OFF before connecting or disconnecting system components/cables. Failure to follow this warning may cause turret or 25 mm gun movement, resulting in injury or death to personnel.



- Step 1. Check for loose or disconnected left-rear hull defilade detector unit cable connector J2 at left-rear retro detector unit (see paragraph 2-4).
Connect J2 cable connector properly (see paragraph 2-4).
- Step 1. Check W8 cable for loose or disconnected cable connector (see paragraphs 2-4 and 2-5).
Connect W8 cable properly (see paragraphs 2-4 and 2-5).

Table 3-2. Operator/Crew Troubleshooting (Con't)

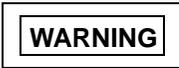
MALFUNCTION

TEST OR INSPECTION

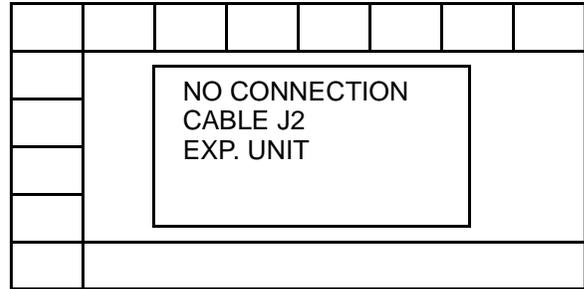
CORRECTIVE ACTION

- Step 1. Check left-rear hull defilade detector unit for damage.
If hull defilade detector unit is damaged, notify trained PGS troubleshooter or TAVSC.
- Step 1. Check W8 cable for damage.
If W8 cable is damaged, notify trained PGS troubleshooter or TAVSC.
- Step 1. Check left-rear retro detector unit for damage.
If retro detector unit is damaged, notify trained PGS troubleshooter or TAVSC.
- Step 1. Notify trained PGS troubleshooter or TAVSC.

1. CONTROL PANEL DISPLAY SCREEN SHOWS "NO CONNECTION CABLE J2 EXPANSION UNIT".



Vehicle MASTER SWITCH and turret power must be OFF before connecting or disconnecting system components/cables. Failure to follow this warning may cause turret or 25 mm gun movement, resulting in injury or death to personnel.



- Step 1. Check W14 cable for loose or disconnected cable connector J2 at expansion unit (see paragraph 2-5).
Connect W14 cable properly (see paragraph 2-5).
- Step 1. Check W14 cable for damage.
If W14 cable is damaged, notify trained PGS troubleshooter or TAVSC.
- Step 1. Check malfunction indicator light on expansion unit.
If indicator light is not blinking, notify trained PGS troubleshooter or TAVSC.
- Step 1. Check expansion unit for damage.
If expansion unit is damaged, notify trained PGS troubleshooter or TAVSC.
- Step 1. Notify trained PGS troubleshooter or TAVSC.

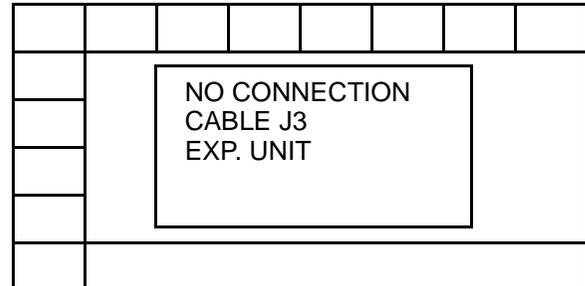
Table 3-2. Operator/Crew Troubleshooting (Con't)

MALFUNCTION	TEST OR INSPECTION	CORRECTIVE ACTION
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1. CONTROL PANEL DISPLAY SCREEN SHOWS "NO CONNECTION CABLE J3 EXPANSION UNIT".



Vehicle MASTER SWITCH and turret power must be OFF before connecting or disconnecting system components/cables. Failure to follow this warning may cause turret or 25 mm gun movement, resulting in injury or death to personnel.

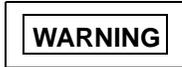


- Step 1. Check W13 cable for loose or disconnected cable connector J3 at expansion unit (see paragraph 2-5).
 - Connect W13 cable properly (see paragraph 2-5).
- Step 1. Check W13 cable for damage.
 - If W13 cable is damaged, notify trained PGS troubleshooter or TAVSC.
- Step 1. Check malfunction indicator light on expansion unit.
 - If indicator light is not blinking, notify trained PGS troubleshooter or TAVSC.
- Step 1. Check expansion unit for damage.
 - If expansion unit is damaged, notify trained PGS troubleshooter or TAVSC.
- Step 1. Notify trained PGS troubleshooter or TAVSC.

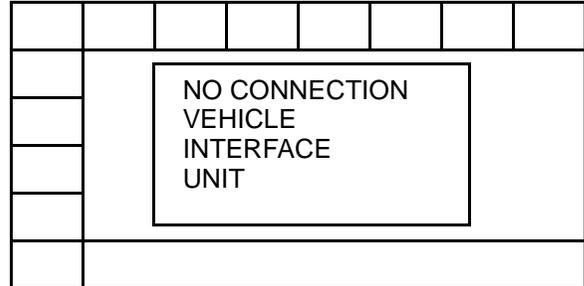
Table 3-2. Operator/Crew Troubleshooting (Con't)

MALFUNCTION	TEST OR INSPECTION	CORRECTIVE ACTION
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1. CONTROL PANEL DISPLAY SCREEN SHOWS "NO CONNECTION VEHICLE INTERFACE UNIT".



Vehicle MASTER SWITCH and turret power must be OFF before connecting or disconnecting system components/cables. Failure to follow this warning may cause turret or 25 mm gun movement, resulting in injury or death to personnel.



- Step 1. Check for loose or disconnected W5, W6, W12, and control panel cable connectors (see paragraph 2-5).
 - Connect cables properly (see paragraph 2-5).
- Step 1. Check W5, W6, W12, and control panel cables for damage.
 - If W5, W6, W12 or control panel cable is damaged, notify trained PGS troubleshooter or TAVSC.
- Step 1. Check malfunction indicator light on vehicle interface unit.
 - If indicator light is not blinking, notify trained PGS troubleshooter or TAVSC.
- Step 1. Check vehicle interface unit for damage.
 - If vehicle interface unit is damaged, notify trained PGS troubleshooter or TAVSC.
- Step 1. Notify trained PGS troubleshooter or TAVSC.

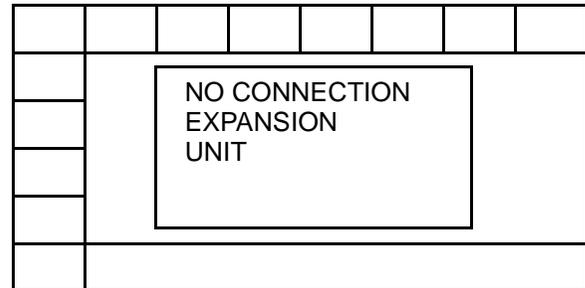
Table 3-2. Operator/Crew Troubleshooting (Con't)

MALFUNCTION	TEST OR INSPECTION	CORRECTIVE ACTION
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1. CONTROL PANEL DISPLAY SCREEN SHOWS "NO CONNECTION EXPANSION UNIT".



Vehicle MASTER SWITCH and turret power must be OFF before connecting or disconnecting system components/cables. Failure to follow this warning may cause turret or 25 mm gun movement, resulting in injury or death to personnel.

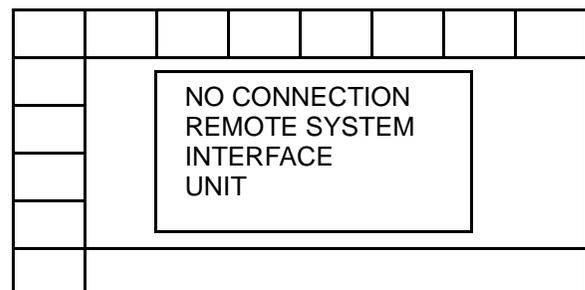


- Step 1. Check for loose or disconnected W6, W13, and W14 cable connectors (see paragraph 2-5).
Connect W6, W13, and W14 cable properly (see paragraph 2-5).
- Step 1. Check W6, W13, and W14 cables for damage.
If W6, W13, or W14 cable is damaged, notify trained PGS troubleshooter or TAVSC.
- Step 1. Check malfunction indicator light on expansion unit.
If indicator light is not blinking, notify trained PGS troubleshooter or TAVSC.
- Step 1. Check expansion unit for damage.
If expansion unit is damaged, notify trained PGS troubleshooter or TAVSC.
- Step 1. Notify trained PGS troubleshooter or TAVSC.

1. CONTROL PANEL DISPLAY SCREEN SHOWS "NO CONNECTION REMOTE SYSTEM INTERFACE UNIT".



Vehicle MASTER SWITCH and turret power must be OFF before connecting or disconnecting system components/cables. Failure to follow this warning may cause turret or 25 mm gun movement, resulting in injury or death to personnel.



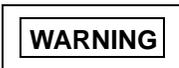
- Step 1. Check W1, W2, W3, W4, W5, and RSI antenna cables for loose or disconnected cable connectors (see paragraph 2-5).
Connect cables properly (see paragraph 2-5).

Table 3-2. Operator/Crew Troubleshooting (Con't)

MALFUNCTION	TEST OR INSPECTION	CORRECTIVE ACTION
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- Step 1. Check W1, W2, W3, W4, W5, and RSI antenna cables for damage.
If W1, W2, W3, W4, W5, or RSI antenna cable is damaged, notify trained PGS troubleshooter or TAVSC.
- Step 1. Check malfunction indicator light on RSI unit.
If indicator light is not blinking, notify trained PGS troubleshooter or TAVSC.
- Step 1. Check RSI assembly for damage.
If RSI assembly is damaged, notify trained PGS troubleshooter or TAVSC.
- Step 1. Notify trained PGS troubleshooter or TAVSC.

1. **CONTROL PANEL DISPLAY SCREEN SHOWS "NO CONNECTION TBOS VIDEO MIXER UNIT".**



Vehicle MASTER SWITCH and turret power must be OFF before connecting or disconnecting system components/cables. Failure to follow this warning may cause turret or 25 mm gun movement, resulting in injury or death to personnel.



- Step 1. Check W1, W2, W3, W4, W5, and W11 cables for loose or disconnected cable connections (see paragraphs 2-4 and 2-5).
Connect cables properly (see paragraphs 2-4 and 2-5).
- Step 1. Check W1, W2, W3, W4, W5, and W11 cables for damage.
If W1, W2, W3, W4, W5, or W11 cable is damaged, notify trained PGS troubleshooter or TAVSC.
- Step 1. Check malfunction indicator light on TBOS video mixer.
If indicator light is not blinking, notify trained PGS troubleshooter or TAVSC.
- Step 1. Check TBOS video mixer for damage.
If TBOS video mixer is damaged, notify trained PGS troubleshooter or TAVSC.
- Step 1. Notify trained PGS troubleshooter or TAVSC.

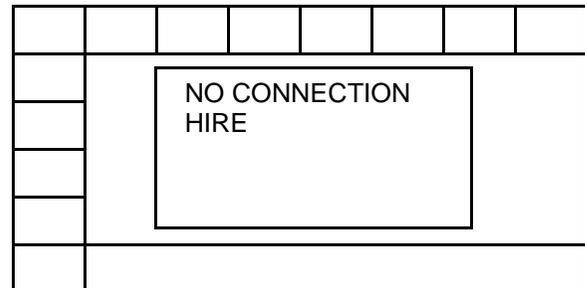
Table 3-2. Operator/Crew Troubleshooting (Con't)

MALFUNCTION	TEST OR INSPECTION	CORRECTIVE ACTION
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1. CONTROL PANEL DISPLAY SCREEN SHOWS "NO CONNECTION HIRE".



Vehicle MASTER SWITCH and turret power must be OFF before connecting or disconnecting system components/cables. Failure to follow this warning may cause turret or 25 mm gun movement, resulting in injury or death to personnel.



Step 1. Check W11 cable for loose or disconnected cable connections (see paragraph 2-5).

Connect cable properly (see paragraph 2-5).

Step 1. Check W11 cable for damage.

If W11 cable is damaged, notify trained PGS troubleshooter or TAVSC.

Step 1. Check TBOS video mixer for damage.

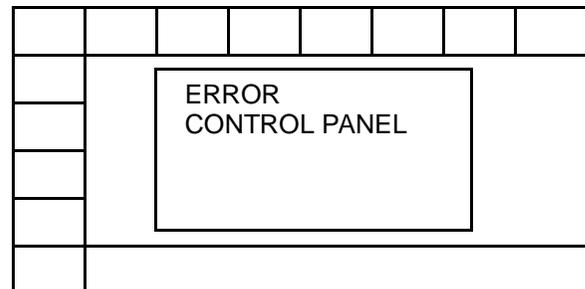
If TBOS video mixer is damaged, notify trained PGS troubleshooter or TAVSC.

Step 1. Notify trained PGS troubleshooter or TAVSC.

1. CONTROL PANEL DISPLAY SCREEN SHOWS "ERROR CONTROL PANEL".



Vehicle MASTER SWITCH and turret power must be OFF before connecting or disconnecting system components/cables. Failure to follow this warning may cause turret or 25 mm gun movement, resulting in injury or death to personnel.



Step 1. Check control panel cable for loose or disconnected cable connector (see paragraph 2-5).

Connect control panel cable properly (see paragraph 2-5).

Step 1. Check control panel for damage.

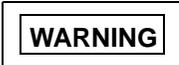
If control panel is damaged, notify trained PGS troubleshooter or TAVSC.

Step 1. Notify trained PGS troubleshooter or TAVSC.

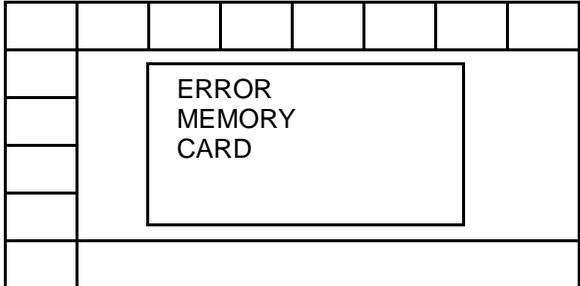
Table 3-2. Operator/Crew Troubleshooting (Con't)

MALFUNCTION	TEST OR INSPECTION	CORRECTIVE ACTION
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1. CONTROL PANEL DISPLAY SCREEN SHOWS "ERROR MEMORY CARD".



Vehicle MASTER SWITCH and turret power must be OFF before connecting or disconnecting system components/cables. Failure to follow this warning may cause turret or 25 mm gun movement, resulting in injury or death to personnel.

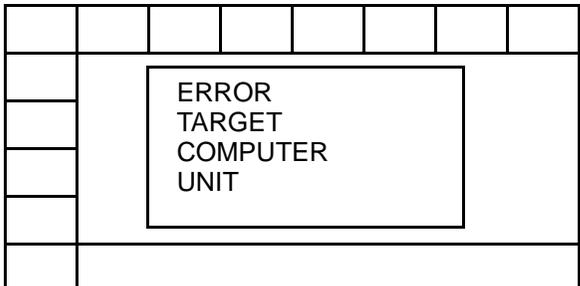


- Step 1. Check for loose or improperly installed TDRS memory card (see paragraph 2-5).
 - Secure loose TDRS memory card. Remove and install TDRS memory card in control panel until flush with end of control panel (see paragraph 2-5).
- Step 1. Reprogram TDRS memory card (see TM 9-6920-711-12&P-1).
- Step 1. Check for damaged TDRS memory card.
 - If TDRS memory card is damaged, notify your supervisor.
- Step 1. Notify trained PGS troubleshooter or TAVSC.

1. CONTROL PANEL DISPLAY SCREEN SHOWS "ERROR TARGET COMPUTER UNIT".



Vehicle MASTER SWITCH and turret power must be OFF before connecting or disconnecting system components/cables. Failure for follow this warning may cause turret or 25 mm gun movement resulting in injury or death to personnel.



- Step 1. Check for loose or disconnected cable connectors at target computer unit (see paragraph 2-5).
 - Connect cables properly (see paragraph 2-5).
- Step 1. Check malfunction indicator light on target computer unit.
 - If indicator light is not blinking, notify trained PGS troubleshooter or TAVSC.

Table 3-2. Operator/Crew Troubleshooting (Con't)

MALFUNCTION	TEST OR INSPECTION	CORRECTIVE ACTION
	Step 1. Check target computer unit for damage. If target computer unit is damaged, notify trained PGS troubleshooter or TAVSC.	
	Step 1. Check W1, W2, W3, W4, W5, W7, and W8 cables for damage. If W1, W2, W3, W4, W5, W7, or W8 cable is damaged, notify trained PGS troubleshooter or TAVSC.	
	Step 1. Notify trained PGS troubleshooter.	
1. CONTROL PANEL DISPLAY SCREEN SHOWS "ERROR TARGET COMPUTER OR TDRS MEM. CARD".		
	NOTE	
	Manual BIT and alignment procedures must be performed after each corrective action (see paragraphs 2-6 and 2-7). Ensure that PGS is functioning properly before leaving vehicle.	
	Step 1. Inspect TDRS memory card for damage. If TDRS memory card is damaged, notify trained PGS troubleshooter or TAVSC.	
	Step 1. Reprogram TDRS memory card (see TM 9-6920-711-12&P-1).	
	Step 1. Inspect control panel for damage. If control panel is damaged, notify trained PGS troubleshooter or TAVSC.	
	Step 1. Inspect target computer unit for damage. If target computer unit is damaged, notify trained PGS troubleshooter or TAVSC.	

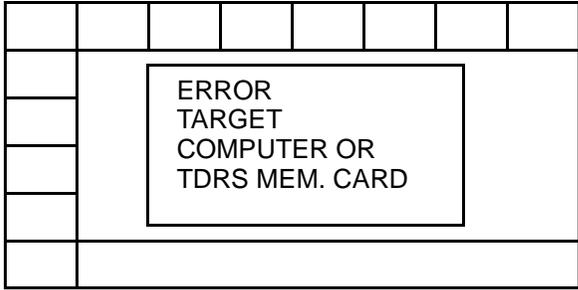
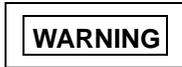


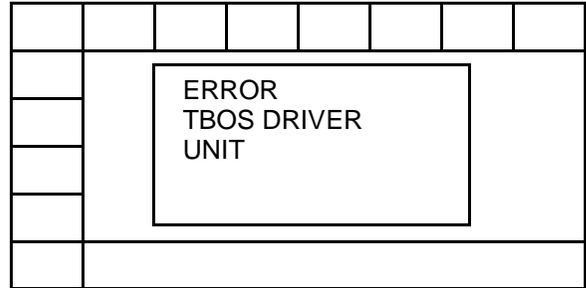
Table 3-2. Operator/Crew Troubleshooting (Con't)

MALFUNCTION	TEST OR INSPECTION	CORRECTIVE ACTION
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1. CONTROL PANEL DISPLAY SCREEN SHOWS "ERROR TBOS DRIVER UNIT".



Vehicle MASTER SWITCH or turret power must be OFF before connecting or disconnecting system components/cables. Failure to follow this warning may cause turret or 25 mm gun movement, resulting in injury or death to personnel.



Step 1. Check for loose or disconnected cable connectors at TBOS eyepiece units (see paragraph 2-5).

Connect cables properly (see paragraph 2-5).

Step 1. Check W1, W2, W3, W4, W5, W9 and W10 cables for damage.

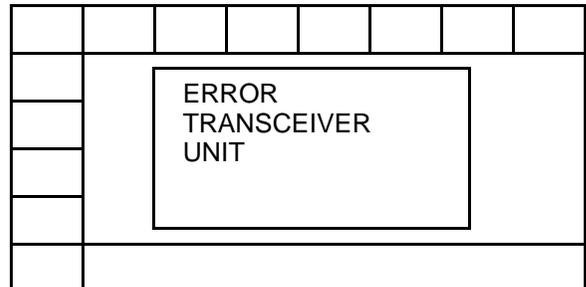
If W1, W2, W3, W4, W5, W9 or W10 cable is damaged, notify trained PGS troubleshooter or TAVSC.

Step 1. Notify trained PGS troubleshooter or TAVSC.

1. CONTROL PANEL DISPLAY SCREEN SHOWS "ERROR TRANSCEIVER UNIT".



Vehicle MASTER SWITCH and turret power must be OFF before connecting or disconnecting system components/cables. Failure to follow this warning may cause turret or 25 mm gun movement, resulting in injury or death to personnel.



Step 1. Check W1, W2, W3, W4, and W5 cables for loose or disconnected cable connectors (see paragraphs 2-4 and 2-5).

Connect cables properly (see paragraphs 2-4 and 2-5).

Step 1. Check W1, W2, W3, W4, and W5 cables for damage.

If W1, W2, W3, W4, or W5 cable is damaged, notify trained PGS troubleshooter or TAVSC.

Table 3-2. Operator/Crew Troubleshooting (Con't)

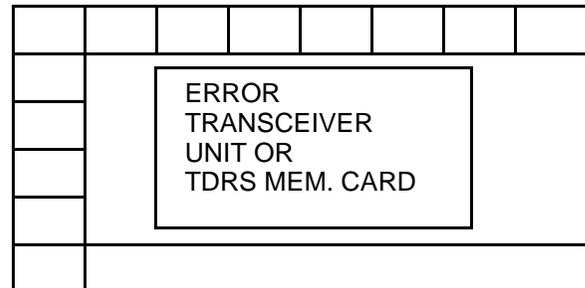
MALFUNCTION	TEST OR INSPECTION	CORRECTIVE ACTION
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- Step 1. Check transceiver unit for damage.
If transceiver unit is damaged, notify trained PGS troubleshooter or TAVSC.
- Step 1. Notify trained PGS troubleshooter or TAVSC.

1. CONTROL PANEL DISPLAY SCREEN SHOWS "ERROR TRANSCEIVER UNIT OR TDRS MEM. CARD".

NOTE

Manual BIT and alignment procedures must be performed after each corrective action (see paragraphs 2-6 and 2-7). Ensure that PGS is functioning properly before leaving vehicle.

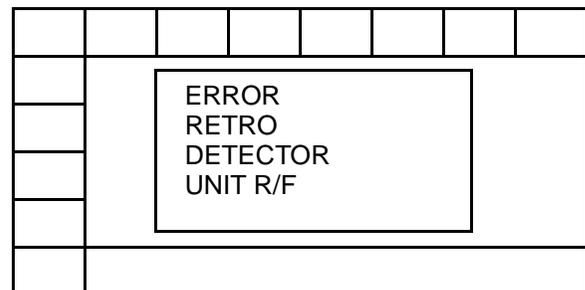


- Step 1. Inspect TDRS memory card for damage.
If TDRS memory card is damaged, notify trained PGS troubleshooter or TAVSC.
- Step 1. Reprogram TDRS memory card (see TM 9-6920-711-12&P-1).
- Step 1. Inspect control panel for damage.
If control panel is damaged, notify trained PGS troubleshooter or TAVSC.
- Step 1. Inspect transceiver unit for damage.
If transceiver unit is damaged, notify trained PGS troubleshooter or TAVSC.

1. CONTROL PANEL DISPLAY SCREEN SHOWS "ERROR RETRO DETECTOR UNIT R/F".



Vehicle MASTER SWITCH and turret power must be OFF before connecting or disconnecting system components/cables. Failure to follow this warning may cause turret or 25 mm gun movement, resulting in injury or death to personnel.



- Step 1. Check W7 cable for loose or disconnected cable connectors (see paragraphs 2-4 and 2-5).
Connect W7 cable properly (see paragraphs 2-4 and 2-5).

Table 3-2. Operator/Crew Troubleshooting (Con't)

MALFUNCTION	TEST OR INSPECTION	CORRECTIVE ACTION
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Step 1. Check W7 cable for damage.

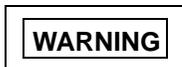
If W7 cable is damaged, notify trained PGS troubleshooter or TAVSC.

Step 1. Check right-front retro detector unit for damage.

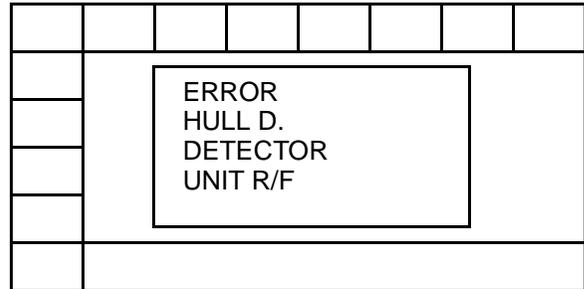
If retro detector unit is damaged, notify trained PGS troubleshooter or TAVSC.

Step 1. Notify trained PGS troubleshooter or TAVSC.

1. CONTROL PANEL DISPLAY SCREEN SHOWS "ERROR HULL D. DETECTOR UNIT R/F".



Vehicle **MASTER SWITCH** or turret power must be **OFF** before connecting or disconnecting system components/cables. Failure to follow this warning may cause turret or 25 mm gun movement, resulting in injury or death to personnel.



Step 1. Check for loose or disconnected right-front hull defilade detector unit connector J2 at right-front retro detector unit (see paragraph 2-4).

Connect J2 cable connector properly (see paragraph 2-4).

Step 1. Check right-front hull defilade detector unit for damage.

If hull defilade detector unit is damaged, notify trained PGS troubleshooter or TAVSC.

Step 1. Check right-front retro detector unit for damage.

If retro detector unit is damaged, notify trained PGS troubleshooter or TAVSC.

Step 1. Check W7 cable for damage.

If W7 cable is damaged, notify trained PGS troubleshooter or TAVSC.

Step 1. Notify trained PGS troubleshooter or TAVSC.

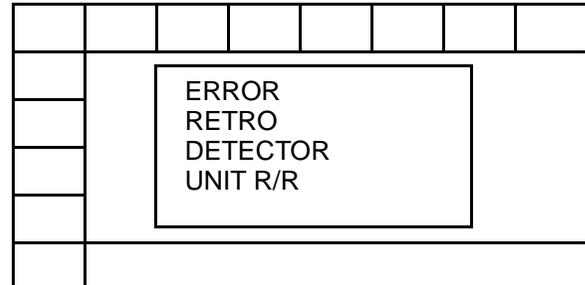
Table 3-2. Operator/Crew Troubleshooting (Con't)

MALFUNCTION
TEST OR INSPECTION
CORRECTIVE ACTION

1. CONTROL PANEL DISPLAY SCREEN SHOWS
 "ERROR RETRO DETECTOR UNIT R/R".

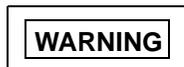


Vehicle **MASTER SWITCH** and turret power must be **OFF** before connecting or disconnecting system components/cables. Failure to follow this warning may cause turret or 25 mm gun movement, resulting in injury or death to personnel.

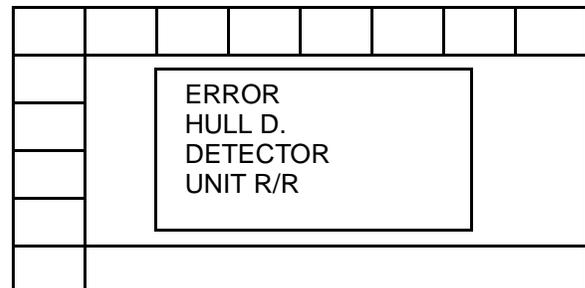


- Step 1. Check W8 cable for loose or disconnected cable connectors (see paragraphs 2-4 and 2-5).
 Connect W8 cable properly (see paragraphs 2-4 and 2-5).
- Step 1. Check W8 cable for damage.
 If W8 cable is damaged, notify trained PGS troubleshooter or TAVSC.
- Step 1. Check right-rear retro detector unit for damage.
 If retro detector unit is damaged, notify trained PGS troubleshooter or TAVSC.
- Step 1. Notify trained PGS troubleshooter or TAVSC.

1. CONTROL PANEL DISPLAY SCREEN SHOWS
 "ERROR HULL D. DETECTOR UNIT R/R".



Vehicle **MASTER SWITCH** and turret power must be **OFF** before connecting or disconnecting system components/cables. Failure to follow this warning may cause turret or 25 mm gun movement, resulting in injury or death to personnel.



- Step 1. Check for loose or disconnected right-rear hull defilade detector unit connector J2 at right-rear retro detector unit (see paragraph 2-4).
 Connect J2 cable connector properly (see paragraph 2-4).
- Step 1. Check right-rear hull defilade detector unit for damage.
 If hull defilade detector unit is damaged, notify trained PGS troubleshooter or TAVSC.

Table 3-2. Operator/Crew Troubleshooting (Con't)

MALFUNCTION	TEST OR INSPECTION	CORRECTIVE ACTION
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Step 1. Check right-rear retro detector unit for damage.
 If retro detector unit is damaged, notify trained PGS troubleshooter or TAVSC.

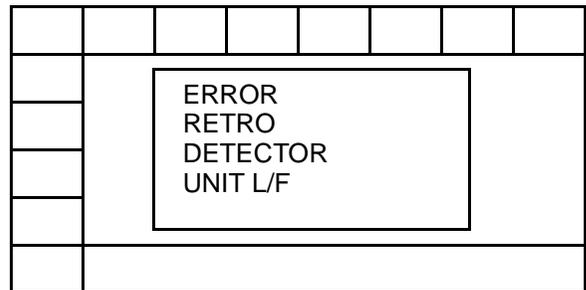
Step 1. Check W8 cable for damage.
 If W8 cable is damaged, notify trained PGS troubleshooter or TAVSC.

Step 1. Notify trained PGS troubleshooter or TAVSC.

1. CONTROL PANEL DISPLAY SCREEN SHOWS "ERROR RETRO DETECTOR UNIT L/F".



Vehicle MASTER SWITCH and turret power must be OFF before connecting or disconnecting system components/cables. Failure to follow this warning may cause turret or 25 mm gun movement, resulting in injury or death to personnel.



Step 1. Check W7 cable for loose or disconnected cable connectors (see paragraphs 2-4 and 2-5).
 Connect W7 cable properly (see paragraphs 2-4 and 2-5).

Step 1. Check W7 cable for damage.
 If W7 cable is damaged, notify trained PGS troubleshooter or TAVSC.

Step 1. Check left-front retro detector unit for damage.
 If retro detector unit is damaged, notify trained PGS troubleshooter or TAVSC.

Step 1. Notify trained PGS troubleshooter or TAVSC.

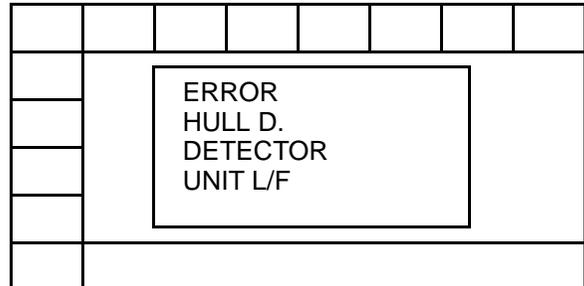
Table 3-2. Operator/Crew Troubleshooting (Con't)

MALFUNCTION	TEST OR INSPECTION	CORRECTIVE ACTION
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1. CONTROL PANEL DISPLAY SCREEN SHOWS "ERROR HULL D. DETECTOR UNIT L/F".



Vehicle MASTER SWITCH and turret power must be OFF before connecting or disconnecting system components/cables. Failure to follow this warning may cause turret or 25 mm gun movement, resulting in injury or death to personnel.

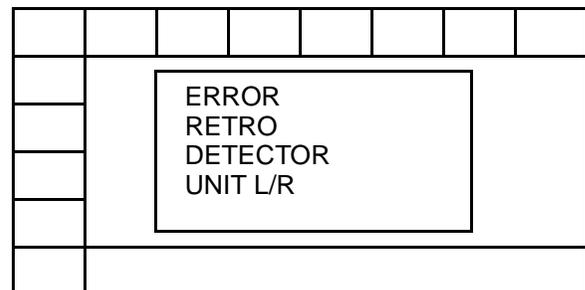


- Step 1. Check for loose or disconnected left-front hull defilade detector unit connector J2 at left-front retro detector unit (see paragraph 2-4).
 Connect J2 cable connector properly (see paragraph 2-4).
- Step 1. Check left-front hull defilade detector unit for damage.
 If hull defilade detector unit is damaged, notify trained PGS troubleshooter or TAVSC.
- Step 1. Check left-front retro detector unit for damage.
 If retro detector unit is damaged, notify trained PGS troubleshooter or TAVSC.
- Step 1. Check W7 cable for damage.
 If W7 cable is damaged, notify trained PGS troubleshooter or TAVSC.
- Step 1. Notify trained PGS troubleshooter or TAVSC.

1. CONTROL PANEL DISPLAY SCREEN SHOWS "ERROR RETRO DETECTOR UNIT L/R".



Vehicle MASTER SWITCH or turret power must be OFF before connecting or disconnecting system components/cables. Failure to follow this warning may cause turret or 25 mm gun movement, resulting in injury or death to personnel.



- Step 1. Check W8 cable for loose or disconnected cable connectors (see paragraphs 2-4 and 2-5).
 Connect W8 cable properly (see paragraphs 2-4 and 2-5).

Table 3-2. Operator/Crew Troubleshooting (Con't)

MALFUNCTION	TEST OR INSPECTION	CORRECTIVE ACTION
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Step 1. Check W8 cable for damage.

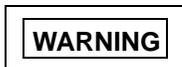
If W8 cable is damaged, notify trained PGS troubleshooter or TAVSC.

Step 1. Check left-rear retro detector unit for damage.

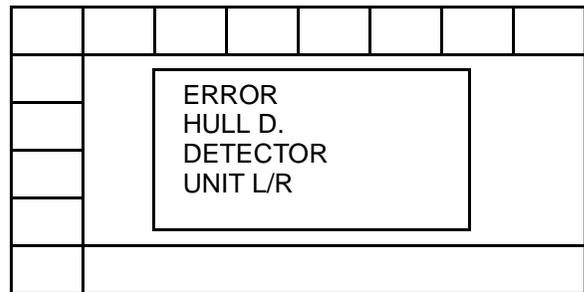
If retro detector unit is damaged, notify trained PGS troubleshooter or TAVSC.

Step 1. Notify trained PGS troubleshooter or TAVSC.

1. CONTROL PANEL DISPLAY SCREEN SHOWS "ERROR HULL D. DETECTOR UNIT L/R".



Vehicle MASTER SWITCH and turret power must be OFF before connecting or disconnecting system components/cables. Failure to follow this warning may cause turret or 25 mm gun movement, resulting in injury or death to personnel.



Step 1. Check for loose or disconnected left-front hull defilade detector unit connector J2 at left-rear retro detector unit (see paragraph 2-4).

Connect J2 cable connector properly (see paragraph 2-4).

Step 1. Check left-rear hull defilade detector unit for damage.

If hull defilade detector unit is damaged, notify trained PGS troubleshooter or TAVSC.

Step 1. Check left-rear retro detector unit for damage.

If retro detector unit is damaged, notify trained PGS troubleshooter or TAVSC.

Step 1. Check W8 cable for damage.

If W8 cable is damaged, notify trained PGS troubleshooter or TAVSC.

Step 1. Notify trained PGS troubleshooter or TAVSC.

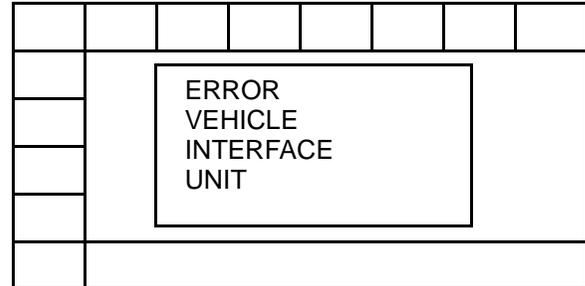
Table 3-2. Operator/Crew Troubleshooting (Con't)

MALFUNCTION	TEST OR INSPECTION	CORRECTIVE ACTION
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1. CONTROL PANEL DISPLAY SCREEN SHOWS "ERROR VEHICLE INTERFACE UNIT".



Vehicle MASTER SWITCH and turret power must be OFF before connecting or disconnecting system components/cables. Failure to follow this warning may cause turret or 25 mm gun movement, resulting in injury or death to personnel.



Step 1. Check for loose or disconnected W1, W2, W3, W4, W5, W6, W12, and control panel cable connectors (see paragraph 2-5).

Connect cables properly (see paragraph 2-5).

Step 1. Check W1, W2, W3, W4, W5, W6, W12, and control panel cables for damage.

If W1, W2, W3, W4, W5, W6, W12, or control panel cable is damaged, notify trained PGS troubleshooter or TAVSC.

Step 1. Check malfunction indicator light on vehicle interface unit.

If indicator light is not blinking, notify trained PGS troubleshooter or TAVSC.

Step 1. Check vehicle interface unit for damage.

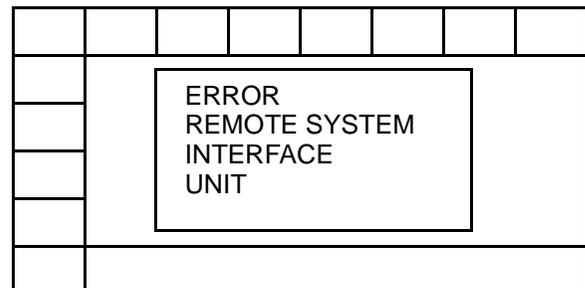
If vehicle interface unit is damaged, notify trained PGS troubleshooter or TAVSC.

Step 1. Notify trained PGS troubleshooter or TAVSC.

1. CONTROL PANEL DISPLAY SCREEN SHOWS "ERROR REMOTE SYSTEM INTERFACE UNIT".



Vehicle MASTER SWITCH and turret power must be OFF before connecting or disconnecting system components/cables. Failure to follow this warning may cause turret or 25 mm gun movement, resulting in injury or death to personnel.



Step 1. Check for loose or disconnected W1, W2, W3, W4, W5, and RSI antenna cable connectors (see paragraph 2-5).

Connect cables properly (see paragraph 2-5).

Table 3-2. Operator/Crew Troubleshooting (Con't)

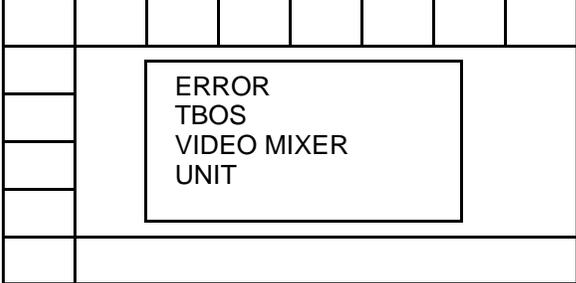
MALFUNCTION	TEST OR INSPECTION	CORRECTIVE ACTION
	Step 1. Check malfunction indicator light on RSI unit. If indicator light is not blinking, notify trained PGS troubleshooter or TAVSC.	
	Step 1. Check RSI assembly for damage. If RSI assembly is damaged, notify trained PGS troubleshooter or TAVSC.	
	Step 1. Check W1, W2, W3, W4, W5, and RSI antenna cables for damage. If W1, W2, W3, W4, W5, or RSI antenna cable is damaged, notify trained PGS troubleshooter or TAVSC.	
	Step 1. Notify trained PGS troubleshooter or TAVSC.	
1. CONTROL PANEL DISPLAY SCREEN SHOWS "ERROR TBOS VIDEO MIXER UNIT".		
	<div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 0 auto;">WARNING</div> <p>Vehicle MASTER SWITCH and turret power must be OFF before connecting or disconnecting system components/cables. Failure to follow this warning may cause turret or 25 mm gun movement, resulting in injury or death to personnel.</p>	
	Step 1. Check for loose or disconnected W1, W2, W3, W4, W5, and W11 cables (see paragraphs 2-4 and 2-5). Connect cables properly (see paragraphs 2-4 and 2-5).	
	Step 1. Check malfunction indicator light on TBOS video mixer. If indicator light is not blinking, notify trained PGS troubleshooter or TAVSC.	
	Step 1. Check TBOS video mixer for damage. If TBOS video mixer is damaged, notify trained PGS troubleshooter or TAVSC.	
	Step 1. Check W1, W2, W3, W4, W5, and W11 cables for damage. If W1, W2, W3, W4, W5, or W11 cable is damaged, notify trained PGS troubleshooter or TAVSC.	
	Step 1. Notify trained PGS troubleshooter or TAVSC.	

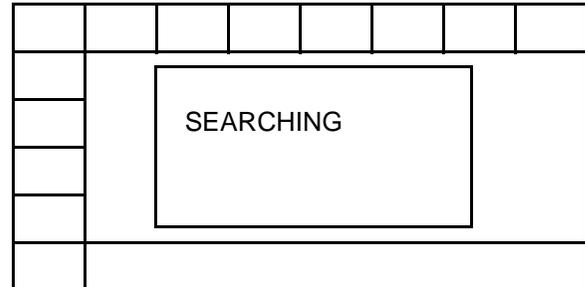
Table 3-2. Operator/Crew Troubleshooting (Con't)

MALFUNCTION
TEST OR INSPECTION
CORRECTIVE ACTION

1. CONTROL PANEL DISPLAY POSITION
 SCREEN INDICATES "SEARCHING".



Vehicle MASTER SWITCH and turret power must be OFF before connecting or disconnecting system components/cables. Failure to follow this warning may cause turret or 25 mm gun movement, resulting in injury or death to personnel.



NOTE

"SEARCHING" is not a pop-up screen.

- Step 1. Check for loose or disconnected RSI antenna cable connector J3 (see paragraph 2-5).
 Connect cable properly (see paragraph 2-5).
- Step 1. Check RSI assembly for damage.
 If RSI assembly is damaged, notify trained PGS troubleshooter or TAVSC.
- Step 1. Check RSI antenna assembly for damage.
 If RSI antenna is damaged, notify trained PGS troubleshooter or TAVSC personnel.
- Step 1. Verify that RSI antenna is not obstructed by any object or that vehicle is not located under a roof.
 If RSI antenna is obstructed by an object or under a roof, clear obstruction and/or move to an open area.
- Step 1. Check that correct time and data has been entered into control panel.
 Request training controller use a CGUN to verify time and data (see TM 9-6920-711-12&P-1).
 Remove TDRS memory card and reprogram card for the correct training area (RANGE) (see TM 9-6920-711-12&P-1).
 Notify trained PGS troubleshooter or TAVSC.

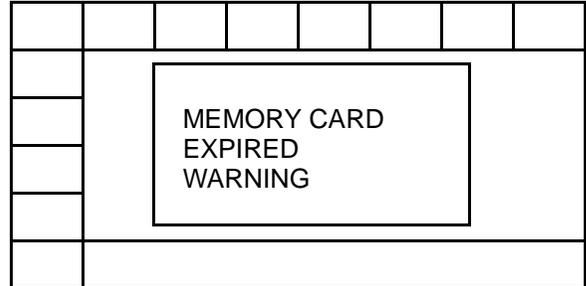
Table 3-2. Operator/Crew Troubleshooting (Con't)

MALFUNCTION	TEST OR INSPECTION	CORRECTIVE ACTION
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1. CONTROL PANEL DISPLAY SCREEN INDICATES "MEMORY CARD EXPIRED WARNING".

NOTE

This malfunction indicates that the TDRS memory card is full.



Either download TDRS memory card to TDRS computer unit and reprogram the TDRS memory card or insert a new TDRS memory card.